## I claim:

1. A method for interfering with the expression of hyphal-specific genes in a fungus resulting in the inhibition of cell growth of said fungus, comprising the step of:

interfering with the transcription of said hyphal-specific genes mediated by *cis* acting sequences.

- 2. The method of claim 1, wherein said fungus comprises a pathogenic or nonpathogenic yeast strain.
- 3. The method of claim 2, wherein said pathogenic fungus comprises Candida albicans.
- 4. The method of claim 1, wherein said *cis* acting sequences comprise *cis*-regulatory elements.
- 5. The method of claim 4, wherein said cis-regulatory elements comprise UAS.
- 6. The method of claim 4, wherein said cis-regulatory elements comprise URS.
- 7. The method of claim 4, wherein said interfering step comprises interfering with DNA BP that bind to said *cis*-regulatory elements.
- 8. The method of claim 7, wherein said interfering step comprises interfering with regulatory proteins specific to said DNA BP.
- 9. The method of claim 1, wherein said interfering step comprises manipulating environmental factors.
- 10. The method of claim 1, wherein said interfering step comprises manipulating signal transduction pathways.

- 11. The method of claim 7, wherein said interfering with DNA BP comprises manipulating the binding of said DNA BP to said *cis* regulatory elements.
- 12. The method of claim 7, wherein interfering with DNA BP comprises manipulating the expression of said DNA BP.
- 13. The method of claim 8, wherein interfering with DNA BP regulatory proteins comprises manipulating the ability of said DNA BP regulatory proteins to bind to said DNA BP.
- 14. The method of claim 8, wherein said interfering with DNA BP regulatory proteins comprises manipulating the expression of said DNA BP regulatory protein.
- 15. The method of claim 9, wherein said manipulating environmental factors comprises changing the environmental temperature of said fungus.
- 16. The method of claim 9, wherein said manipulating environmental factor comprises modifying the nitrogen available to said fungus.
- 17. The method of claim 9, wherein said interfering with environmental factor comprises altering the level of nitrogen available to said fungus.
- 18. The method of claim 1, wherein said hyphal-specific genes are selected from the group consisting of HYR1, ECE1, ALS3, CHS2, and SAP6.
- 19. The method of claim 1, wherein said hyphal-specific gene comprises HWP1.
- 20. The method of claim 19, wherein said HWP1 gene contains said *cis* acting sequences within its promoter region.
- 21. The method of claim 20, wherein said HWP1 promoter region comprises the following isolated DNA sequence [SEQ. ID. NO:1]:

AAAAAGTACGTTGTTGTCCTCGTCTCGTCTAATTTCTGTTGACGAGGATTAAT AACAAGAAATACAGGAAACCCTCCAAAAAAAAATTTTGGACCTTACACGCACA TAAATTGCGGATAAACTTGCCATAATAAAAACTCTTTGAAACATACGATATGTTA TTCTTTCATAACTGGAATATTTTTGCTTTTTTTAACATTATGAACAATTGAAAA AAAAAGGAAATGAAAAGGTAAGAGTTGCCTAACCATTGAAAATAATAGGCTAAG GTTTTTCCTGATGCGTTTAACTAAAAAGGAAATAACAAAAGTTATTAGCGATAAC CTGCGTAAGGTGTCAACAAAATATATTTTGCACGTTAGCTCTATAGAAAATATAC AAACTAAATCCTTAAGGAATTTCCTCTATATATAATAGGAAATCCCTCTCACAGT GAACTGAATTATCCATCTGAATTATCAGTCCACTAATTCCATCAATAAAATAGAT TAGTGTATTGTTCTCTCAGTACAATTACTACCATTATGCAATGCTAGCTTATTGT TCATAATTAGCCATGTTGCACACCCTAATTCGAACATTAACTGTATCCATATTTTT CTTGTCCTTCTTTGTTTTTTCTAACAAAATGTTCCAGAATTTTTTAAAAAAATATT TGAAAAACACATAACACTTTGAGTATGATAATATCAACTATTGACTTGTTTTGA AAGTAAAGAATCAAATTTTTTCTAACTCGACTAATGCACTTTACATCAACTGGA TGTTATTTGCATCTACTACTATAAGCTCAAACAAATTATCTTTCAAAAAATGTTATA ATTAACAAGTCATCTATAATTCTTTGGATCCAAAAACAAGGAATTCGGAAATTCT GACGATAAATGTCGACTCACAATTCATTGTAAAAAGGGAGAGTTTTGGTAGGCTC TTAATACCGTTTTTGCAACTTCTCTTTGTATCACCTGTATCCGCCTTTTTTAACATA GCAACTCTTGTAAAGTCCCTTTCTTTTCCCACTATTTTATCATTCTTGAAATATGT AATCAGAATAGTTTTTCAAAAACTATAAATAACGGTCAAAATAACCGGCTATTTT CAATTTCCATTCAACTTGTTTTCTCAACAATATCAAACACAACAGGAATCTCCTAT AGTCACTCGCTTTTAGTTTCGTCAATATG;

including any insertions, deletions, mutations, or modifications.

- 22. The method of claim 1, wherein said cell growth inhibition is in a patient.
- 23. The method of claim 22, wherein said patient is afflicted with a disease.
- 24. The method of claim 23, wherein said disease is AIDS.

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- 25. The method of claim 22, wherein said patient is immunocompromised.
- 26. The method of claim 22, wherein said patient is an organ transplant recipient.
- 27. The method of claim 1, wherein said hyphal-specific genes comprise genes responsible for controlling dimorphism.
- 28. The method of claim 4, wherein said *cis*-regulatory elements comprise a NIT2 binding site.
- 29. The method of claim 7, wherein said DNA BP is encoded by a nucleotide sequence for the DNA binding domain that is homologous to a nucleotide sequence encoding the DNA binding domain of NIT2 binding proteins.
- 30. The method of claim 29, wherein the DNA BP is selected from the group consisting of GAT99, GAT-1, or GATA-like binding proteins.
- 31. The method of claim 29, wherein said NIT2 DNA binding domain comprises the protein sequence [SEQ. ID. NO: 2]:

CTNCFTQTTPLWRRNPDGQPLCNACGLFLKLHGVVRPLSLKTDVIKKRNR.

32. The method of claim 29, wherein the DNA binding domain of said DNA BP comprises the protein sequence [SEQ. ID. NO: 3]:

CTNCGTKTTPLWRRNPQGQPLCNACGLFLKLHGVVRPLSLKTDVIKKRQR.

- 33. The method of claim 10, wherein said signal transduction pathways comprises a cAMP-dependent signaling pathway.
- 34. The method of claim 1, wherein said interfering step inhibits transcription of genes essential for adhesion of said fungus to a patient.
- 35. A method for characterizing genes under control of DNA BP in fungus comprising the steps of:

creating a genomic DNA library from a fungus; screening said genomic library with cDNA from fungal strains; sequencing the clones of interest from said screening step.

- 36. The method of claim 35, wherein said fungus is a pathogenic or nonpathogenic yeast strain.
- 37. The method of claim 36, wherein said pathogenic yeast strain is Candida albicans.
- 38. The method of claim 35, wherein said genomic library is a *Candida albicans* genomic DNA library.
- 39. The method of claim 35, wherein said creating step further comprises the steps of:
  - digesting genomic DNA with a restriction enzyme; selecting genomic fragments ranging in size from 0.5 to 2.0 Kb; and cloning said genomic fragments into a plasmid vector.
- 40. The method of claim 35, wherein said screening step further comprises the steps of:

transferring said cloned genomic fragments onto 96-well plates; performing colony PCR using universal primers; checking said PCR reactions on gels and rearray positives on 96-well plates; spotting productive PCR reactions on membranes; preparing and labeling cDNA from mRNA of fungal strains; hybridizing labeled cDNA to duplicate membranes; and isolating the clones of interest.

- 41. The method of claim 40, wherein said fungal strains contain or do not contain DNA BP genes.
- 42. An isolated, purified nucleic acid sequence comprising a nucleic acid sequence encoding *C. albicans* 5' flanking region [SEQ. ID. NO:1].

43. An isolated purified nucleic acid sequence comprising a nucleic acid sequence encoding *C. albicans* 3' flanking sequence [SEQ. ID. NO: 4].